

1/19

	Motif 1	Motif 2	Motif 3	Motif 4
RV2837c_Mt	VGVCHVHPEDTIGAGLALALVLDGG	[35] VDLVTVVTPSDVRDLGALG	[6] RELVVDHHSND	[10] SADSTTTVAETILDWAGKPIDPRVAHCIVAGLATDTGSRFNASV
sll1253_Ssp	DLILCHOTAPDVLGAAGVLAHLPGSR	[34] IRSLYTVHQQDRGLGKAA	[8] ROVAIYDHLNSP	[11] AVGSTTTLIVELKLRADISLSMVEASVMALGIHVDTGSLTFTQT
MGPA_Mg	IVIFHHVRDGGCLGAGQGLFHLIKANF	[32] EALAIVTVQANYKNRIELRE	[7] KAVLRDHPNED	[11] SYVACCEIOVENATVAKMTIPFVAATLLYIGITDPSNRFLYSNT
YTQI_Bs	ILILHVRDPPAYGQCGTEILRETY	[30] GALVAVQSTANQERIDDOQR	[4] AKLMKIDHHPNED	[13] SVSEMIYELYLGGKEHGMKLNTKAAELIYAGIVGDTGRFLFPNT
AF2029_Af	LGIFTHDPPSSMSAYALREIAKQFD	[37] YDAFAIVSSSGGVNNSIP	[3] DISIVDHPNED	[10] DVGATATLTETIKELKITPSKILATATLFFGIKSETDEFKRNTR
MJ0977_Mj	NKILIVTHIDTGLTSRAILQKLAERLN	[23] YDLIIRADLGSGQLMKIE	[11] DKIIIDHHPNED	[18] GAEICGAGVSYPFAKAINNDWIDLAKYAVLGAAGVCHQIEGKLI
MJ1198_Mj	RPIIRHPTDGYCGIALEKAILPII	[46] LPLVILVNGSTDEIPAI	[7] IEVIVDHPNED	[85] KGRTYDREYLEKIALCWDPEAFYLRNFMDSGIVDIIILATNIKEF
HP1042_Hp	MOVYHLSHLDGYACQLVSKQFFKNQ	[27] EFLINSNLNMLNEABYL	[13] IQIOMDHPNED	[19] IVVEFLKHYALEPKNTTWLEPLVENVNSVDIMETQGYGFEIG
RecJ_Hi	QXIVIGDPPGATSTALSVALRQLG	[31] VOLLTVNGVSSFDGVAF	[5] IRVLVDHHPNED	[33] LAVRAKFRRELGIPTAQPNFTDLDLVALGTIADVWPLDQNNR
RecJ_Hp	TEILVVDYDAGGVISSAINAKFFESLN	[27] APLIITVNGINAFEAARF	[5] YTLIITDHPNED	[27] LVAFYLCYGIHQLLGKESKSHSSELLCLAGVATITADNMLPTTFNFR
RecJ_Ssp	EXVITNGDPPGATSTAVLWEGLOQFF	[32] TKLIVTQNGSTNLDLIVY	[5] MDVIVDHPNED	[27] VAFKVEALYNQYPTVPQQPLEDLDLVALGLIADNMLVTLQGDGR
YYBQ_Bs	ILIFGHQNFDTICSIAIYADLNKLG	[36] VNGVILVNDNERQSSIKDI	[3] QVLEVDHHSND	[12] PVGCTATILNMKYKENNVKIEKIAGMLMSAIISSLSLFFKSPTC
ICRA_Sg	ILVFGHQNFDGSSIAIYADLAREAY	[38] AEQVILTSHNEFQSVADI	[3] EVYGVVDHHSND	[12] PVGSASSIVYRMFKHSEVAVSKETAGMLMSGLISDITLLLKSPPT
MJ0608_Mj	RYWGHKNPDDGSIAIYADLVCYF	[31] GKEIIVDHSKSSQSFDDL	[3] KLIAIADHHSND	[19] IAEIYFKDAIDLIIGKKKKLPDLGALLLSAIISSDTLVLFKSPAT
AF0756_Af	VTVGHKNPDDGSIAIYADLMLNKKW	[46] GKVAIVDHSKSAQAVDGLY	[3] EVYGVVDHHSND	[12] PVGCTATYIKLLFDKTGVVEIPKDIAGILLSSLSSTVLFKSAIT
U60409_Lm	TVVQNGEGDMSIVGCIYLAFLDKQF	[44] QIAHNLVDAALNASVVLY	[14] RVGVVDHHSND	[11] LATVGSACTLVTELYRECGDGVVCPITLLTAPIVUDITVNFEPAPAK
PPX1_Sc	TIQVNGESDMSIAIYADLTPKLNKY	[62] ELNSYVNDNDTTPKLNKY	[2] NVGIIDHHSND	[14] SCSSLVNFVWEYKLGQDREVVMNIAPLLMGAILLIDTSMNRKKE
PRUNE_Dm	HLVWGNESDMSIAIYADLTVYAOQRH	[48] DVNVILVNDHVSPLAPNVT	[1] NVTEIIDHHSND	[18] SVGSCATLVYAOQLAEDQPSSTVAQILLHATIVLEDTINFAPAAK
h-prune.1_Hs	HWLGNESDMSIAIYADLAFYLAFTKT	[52] QVLEVDHHSND	[2] AVAEVVDHHSND	[12] LVGSCATLVTERILOGAPEILDRTAALLHGTITLDCVNVNDLKIG
Specific motifs				
RV2837c_Mt	[107] TVNLAASGFGGGRHRAAGYTTTGS	1648883	/	
sll1253_Ssp	[123] DTDLTQLLEPYGGGGHQAQAAVNLRDV	1653244	/	
MGPA_Mg	[102] GINVRDIAIKYGGGGHNNASGAIITNK	1045875	/	
YTQI_Bs	[103] GPVINGLARKYNGGGHPLASGASISY	2293259	/	
AF2029_Af	[102] EVLREAFDVGSGAGGHAAGAQIPLG	2648507	/	
MJ0977_Mj	[254] AIKYASEKVGSGGGHACGAYIPDN	2128614	/	
MJ1198_Mj	[109] OLMBEIPKSLDGGHACGAYIPDN	2128720	/	
HP1042_Hp	[137] CDVCELSQWCFNGGHRNAGSGKIDGF	2314198	/	
RecJ_Hi	[168] RIHSQHPNMLKFGGHAAGLSIREE	1172895	/	
RecJ_Hp	[155] DALNGVSSLLGTGGHRAAGLSIREE	2313437	/	
RecJ_Ssp	[165] ALLHSQRHMLGFGGHPFAAGLSIPLD	1652638	/	
YYBQ_Bs	[31] DLSKTVEELISLDKEFTLG	586817	/	
ICRA_Sg	[31] HLAKSAEELIDIDAKTFELN	1743856	/	
MJ0608_Mj	[32] VWGLKPEIINWDFNFDN	1591318	/	
AF0756_Af	[32] AVDDLTMIDIKRDYKDFDMS	11498362	/	
U60409_Lm	[36] DVALSVPOILRRDYKQFSFK	1407725	/	
PPX1_Sc	[41] DIKGFVSVDILKDYKQFNQ	730369	/	
PRUNE_Dm	[37] DISKLTLTEVLRDMKVLQTD	1079081	/	
h-prune.1_Hs	[34] DVSGLTTEQMLRKDKQNTIYRQ	24308263	/	

Family 2

Fig. 1

Fig. 1

Family 2

Family 1